

JC02 Rec'd PCT/PTO 16 JUN 2005

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Docket No.: 1254-0275PUS1  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:  
Tomio KUGA

Application No.: 10/528,016

Confirmation No.: 9295

Filed: March 16, 2005

Art Unit: 2871

For: FLAT DISPLAY APPARATUS

Examiner: Not Yet Assigned

**LETTER**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

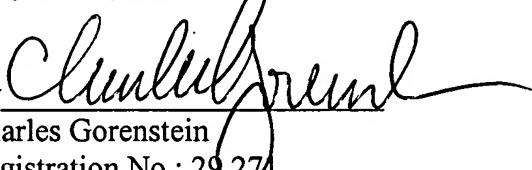
Sir:

Subsequent to the filing of the above-identified application on March 16, 2005, attached hereto is an English translation of the International Preliminary Examination Report (Form PCT/IPEA/409) that should be made of record in the present application.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or to credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17; particularly, extension of time fees.

Dated: June 16, 2005

Respectfully submitted,

By   
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**PCT INITIAL PROCESSING**

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY  
EXAMINATION REPORT  
(PCT Rule 72.2)

To:

HIRAKI, Yusuke  
Toranomom No.5 Mori Building Third Floor, 17-1,  
Toranomom 1-chome  
Minato-ku, Tokyo 105-0001  
JAPON

Date of mailing ( <i>day/month/year</i> ) 17 March 2005 (17.03.2005)	
Applicant's or agent's file reference PH-1882-PCT	IMPORTANT NOTIFICATION
International application No. PCT/JP2003/011721	International filing date ( <i>day/month/year</i> ) 12 September 2003 (12.09.2003)
Applicant SHARP KABUSHIKI KAISHA et al	

## 1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

## 2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

AZ, CA, CH, CN, CO, EP, GH, KG, KP, KR, MK, MZ, RO, RU, TM

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, BA, BB, BG, BR, BY, BZ, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GM, HR, HU, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PG, PH, PL, PT, SC, SD, SE, SG, SK, SL, SY, TJ, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

## 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.



The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No.+41 22 740 14 35	Authorized officer  Yoshiko Kuwahara  Facsimile No.+41 22 338 90 90
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Translation

PATENT COOPERATION TREATY

PCT/JP2003/011721



# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PH-1882-PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/011721	International filing date (day/month/year) 12 September 2003 (12.09.2003)	Priority date (day/month/year) 17 September 2002 (17.09.2002)
International Patent Classification (IPC) or national classification and IPC H04N 5/64, 581		
Applicant SHARP KABUSHIKI KAISHA		

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 5 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
  - ☒ (sent to the applicant and to the International Bureau) a total of 5 sheets, as follows:
    - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).
- This report contains indications relating to the following items:
  - ☒ Box No. I Basis of the report
  - ☐ Box No. II Priority
  - ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - ☒ Box No. IV Lack of unity of invention
  - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
  - ☐ Box No. VI Certain documents cited
  - ☐ Box No. VII Certain defects in the international application
  - ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 04 March 2004 (04.03.2004)	Date of completion of this report 09 September 2004 (09.09.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/011721

## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages \_\_\_\_\_ 1-23 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:
- pages \_\_\_\_\_ 3, 6, 9, 10, 13, 20, 21 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19
- pages\* \_\_\_\_\_ 2, 5, 7, 8, 12, 14, 16-19, 22-24 \_\_\_\_\_ received by this Authority on \_\_\_\_\_ 01 July 2004 (01.07.2004)
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:
- pages \_\_\_\_\_ 1-15 \_\_\_\_\_, as originally filed/furnished
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☒ the claims, Nos. \_\_\_\_\_ 1, 4, 11, 15 \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## Box No. IV Lack of unity of invention

1. ☐ In response to the invitation to restrict or pay additional fees the applicant has:

- ☐ restricted the claims.
- ☐ paid additional fees.
- ☐ paid additional fees under protest.
- ☐ neither restricted nor paid additional fees.

2. ☒ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.

3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is

- ☐ complied with.
- ☒ not complied with for the following reasons:

The inventions relating to claims 2, 3, 5-7 (and 24) are inventions for adjusting the inclination at the time of screwing a main body portion to a stand portion.

The inventions relating to claims 8-10, 12, 13 (and 24) are inventions relating to a bearing constitution.

The inventions relating to claims 14, 16-23 (and 24) are inventions relating to a speed reduction mechanism.

A technical feature that is common to the claims categorized into the above three cannot be found.

4. Consequently, this report has been established in respect of the following parts of the international application:

- ☒ all parts.
- ☐ the parts relating to claims Nos. \_\_\_\_\_

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

 International application No.  
 PCT/JP03/11721

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	2, 3, 5-10, 12-14, 16-24	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	2, 3, 5-10, 12-14, 16-24	NO
Industrial applicability (IA)	Claims	2, 3, 5-10, 12-14, 16-24	YES
	Claims		NO

## 2. Citations and explanations (Rule 70.7)

- Document 1: JP, 2001-194648, A (Sharp Corporation), July 19, 2001 (07.19.01)
- Document 2: JP, 8-314386, A (Matsushita Electric Industrial Co., Ltd.), November 29, 1996 (11.29.96)
- Document 3: Microfilm of the specification and drawings annexed to the written application of Japanese Utility Model Application No. 65337/1981 (Laid-Open Utility Model No. 178765/1982), (Sony Corporation), November 12, 1982 (11.12.82)
- Document 4: JP, 3-204288, A (NEC Home Electronics Ltd.), September 5, 1991 (09.05.91)

Document 1 (paragraph 40) describes an invention for adjusting the inclination of a liquid crystal panel 22, by, when holding a liquid crystal panel 9 in a back-surface housing body 22 fixed to and supported by a stand 29, vertically moving and adjusting using either of the eccentric members 3 on both sides. The stand 29 and back-surface housing body of document 1 correspond to a stand portion of the invention relating to claim 2 of the present application, the liquid crystal panel 22 of document 1 corresponds to a main body portion of the invention relating to claim 2 of the present application, and one of the eccentric members 3 corresponds to one of the eccentric cams of the invention relating to claim 2 of the present application. Further, an elongate hole 8 disposed near one of the eccentric members 3 at the time of the above adjustment of the inclination in document 1 corresponds to a position adjustment hole of the invention relating to claim 2 of the present application.

Document 2 describes a display stand comprising a rotary portion 9 and the rotary portion 9 of document 2 corresponds to a "rotary portion of a single shaft" of the invention of the present application.

It would be easy for a party skilled in the art to conceive of the invention relating to claims 2, 3, 5-7 and 24 by adding the rotary portion of document 2 to the stand of document 1.

Document 3 describes a rotary support portion of a display device, comprising bearings 22 and 32 and a roller 31. The bearings 22 and 32 of document 3 correspond to a radial bearing of the invention relating to claim 9 of the present application and the eccentric members 3 and 4 of document 3 correspond to a thrust bearing of the invention relating to claim 9 of the present application.

Where the center of gravity of the main body portion is to be positioned could be changed as appropriate by design of the main body portion.

It would be easy for a party skilled in the art to conceive of the inventions relating to claims 8-10, 12, 13 and 24 using the bearing described in document 3 for the rotary portion of document 2.



## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.  
Continuation of Box V:

Document 4 describes a mechanism of a rotary table for a display, wherein a pinion 372 is detached from engagement with a circular rack 22 to prevent the swing operation of a main body portion 100 when outside pressure that prevents the swing operation of a movable base 22 is applied during the swing operation. The engagement of the detachable pinion 372 with the circular rack 22 of document 4 corresponds to a torque limit gear of the present invention.

It would be easy for a party skilled in the art to conceive of the inventions relating to claims 14 and 16-24 of the present application by using the rotary mechanism described in document 4 for the rotary portion of document 2.

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